

Notice of Allowability

Application No.

09/821,952

Examiner

Merilyn P. Nguyen

Applicant(s)

TURBA ET AL.

Art Unit

2163

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the interview dated June 05, 2006.
2. ☒ The allowed claim(s) is/are 1-20.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


DON WONG
SUPERVISORY PATENT EXAMINER

DETAILED ACTION

1. In response to the communication dated 04/18/2006 and 06/05/2006, claims 1-20 are active in this application and in condition for allowance.
2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 06/05/2006 has been entered.

Acknowledges

3. Receipt is acknowledged of the following items from the Applicant:
 - The applicant's amendments have been considered.

Examiner's Amendment

4. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Wayne A. Sivertson, Reg. No. 25,645 on 06/05/2006.

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The application has been amended as follows:

1. (Currently Amended) In a data processing system having a user terminal operated by a user which builds a component for accessing a data base management system which responds to said component by execution of a sequence of command language script responsively coupled to said user terminal via a publicly accessible digital data communication network, the improvement comprising:

a. a Data Wizard which permits said user to specify said component as a composite table corresponding to an ordered sequence of discreet and independent sub-tables and which presents a plurality of valid sub-tables as choices for addition at each position in said ordered sequence of discreet and independent sub-tables and wherein each of said ordered sequence of discreet and independent sub-tables defines a unique portion of said sequence of command language script; and

b. a plurality of state reports wherein a different one of said plurality of state reports corresponds to each sub-table in [[said plurality of]] said ordered sequence of discreet and independent sub-tables, wherein each of said plurality of state reports conveys state information including output state resulting from execution by said data base management system of said unique portion of said sequence of command language script corresponding to a given one of said ordered sequence of discreet and independent sub-tables to a subsequent one of said given one of said ordered sequence of discreet and independent sub-tables.

6. (Currently Amended) [[An]] A computer apparatus for state management in a data processing system comprising:

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- a. a user terminal which generates a service request;
- b. a data base management system which honors said service request by executing a sequence of command language statements coupled to said user terminal via a publicly accessible digital data communication network; and
- c. a Data Wizard coupled to said user terminal and said data base management system which permits said service request to be defined from said user terminal as a composite table in accordance with an ordered sequence of discreet and independent sub-tables wherein each of said ordered sequence of discreet and independent sub-tables defines a different portion of said sequence of command language statements and which provides a state report specifying output state resulting from execution by said data base management system of said different portion of said sequence of command language statements to each one of said ordered sequence of discreet and independent sub-tables which corresponds to the previous one of said ordered sequence of discreet and independent sub-tables.

11. (Currently Amended) A method of dynamically building a software component defining a service request from a user terminal coupled via a publicly accessible digital data network to a remote data base management system having a component building process wherein said data base management system responds to a service request by executing a sequence of command language script comprising:

- a. presenting a first plurality of sub-tables which are valid for a first position in a composite table having an ordered sequence of sub-tables which define said software component.

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- b. inserting a chosen one of said first plurality of sub-tables which defines a first portion of said sequence of command language script into said composite table having said ordered sequence of sub-tables;
- c. associating a first state report which describes results of execution of said first portion of said sequence of command language script by said data base management system with said chosen one of said first plurality of sub-tables;
- d. presenting a second plurality of sub-tables which are valid for a next position in said composite table having said ordered sequence of sub-tables;
- e. inserting a chosen one of said second plurality of sub-tables defining a second portion of said sequence of command language script into said composite table having said ordered sequence of sub-tables;
- f. associating a second state report which describes results of execution of said [[first]] second portion of said sequence of command language script by said data base management system with said chosen one of said second plurality of sub-tables; and
- g. repeating steps c, d, e, and f until said component is completed.

16. (Currently Amended) [[An]] A computer apparatus for state management in a data processing system comprising:

- a. permitting means for permitting a user to access a publicly accessible digital data communication network which generates a service request;
- b. providing means coupled to said permitting means via said publicly accessible digital data communication network for providing data base management services which

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honors said service request by executing an ordered sequence of command language script;

c. designing means coupled to said permitting means and said providing means for designing a software component corresponding to said service request through specification of a composite table containing an ordered plurality of discreet and independent sub-tables wherein each of said ordered plurality of discreet and independent sub-tables defines a different portion of said ordered sequence of command language script; and

d. associating means coupled to said designing means for associating a state report with each of said ordered plurality of discreet and independent sub-tables which indicates output state resulting from said data base management system executing said different portion of said ordered sequence of command language script.

Reason for Allowance

5. The following is an examiner's statement of reason for allowance:

None of the references of record Glaser (US Patent No. 6,058,264) teaches or suggests the claimed (Claim 1) invention having, in addition to the other limitations in the claims, the limitation of "each of said ordered sequence of discreet and independent sub-tables defines a unique portion of said sequence of command language script and a plurality of state reports wherein a different one of said plurality of state reports corresponds to each sub-table in said ordered sequence of discreet and independent sub-tables, wherein each of said plurality of state reports conveys state information including output state resulting from execution by said data

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base management system of said unique portion of said sequence of command language script corresponding to a given one of said ordered sequence of discreet and independent sub-tables to a subsequent one of said given one of said ordered sequence of discreet and independent sub-tables”.

None of the references of record Glaser (US Patent No. 6,058,264) teaches or suggests the claimed (Claim 6) invention having, in addition to the other limitations in the claims, the limitation of “a Data Wizard coupled to said user terminal and said data base management system which permits said service request to be defined from said user terminal as a composite table in accordance with an ordered sequence of discreet and independent sub-tables wherein each of said ordered sequence of discreet and independent sub-tables defines a different portion of said sequence of command language statements and which provides a state report specifying output state resulting from execution by said data base management system of said different portion of said sequence of command language statements to each one of said ordered sequence of discreet and independent sub-tables which corresponds to the previous one of said ordered sequence of discreet and independent sub-tables”.

None of the references of record Glaser (US Patent No. 6,058,264) teaches or suggests the claimed (Claim 11) invention having, in addition to the other limitations in the claims, the steps of “inserting a chosen one of said first plurality of sub-tables which defines a first portion of said sequence of command language script into said composite table having said ordered sequence of sub-tables; associating a first state report which describes results of execution of said

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first portion of said sequence of command language script by said data base management system with said chosen one of said first plurality of sub-tables; presenting a second plurality of sub-tables which are valid for a next position in said composite table having said ordered sequence of sub-tables; inserting a chosen one of said second plurality of sub-tables defining a second portion of said sequence of command language script into said composite table having said ordered sequence of sub-tables; associating a second state report which describes results of execution of said second portion of said sequence of command language script by said data base management system with said chosen one of said second plurality of sub-tables”.

None of the references of record Glaser (US Patent No. 6,058,264) teaches or suggests the claimed (Claim 16) invention having, in addition to the other limitations in the claims, the steps limitation of “each of said ordered plurality of discreet and independent sub-tables defines a different portion of said ordered sequence of command language script and associating means coupled to said designing means for associating a state report with each of said ordered plurality of discreet and independent sub-tables which indicates output state resulting from said data base management system executing said different portion of said ordered sequence of command language script”.

Dependent claims 2-5, 7-10, 12-15 and 17-20 are allowable because they depend from base claims.

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6. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance".

Conclusion

7. A shortened statutory period for response to this action is set to expire 3 (three) months and 0 (zero) day from the day of this letter. Failure to respond within the period for response will cause the application to become abandoned (see M.P.E.P 710.02(b)).

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Arun U.S Patent No. 6,557,012 discloses system and method for refreshing and posting data between versions of a database table.

Yoshimura U.S 2001/0051939 discloses method and system for querying database, as well as a recording medium for storing a database query program.

Devine U.S Patent No. 6,944,662 discloses system and methods providing automatic distributed data retrieval, analysis and reporting services.

Davis U.S Patent No. 6,920,608 discloses chart view for reusable data markup language.

Kaufman U.S 2004/0073565 discloses system and method for generating automatic user interface for arbitrarily complex or large databases.

Christensen U.S Patent No. 6,832,237 discloses method and apparatus for selecting and/or changing the display resolution of html home pages in a web application development environment.

Strandberg U.S Patent No. 6,816,880 discloses browser user interface for client workstation.

Pirahesh U.S Patent No. 5,548,758 discloses optimization of sql queries using early-out join transformations of column-bound relational tables.

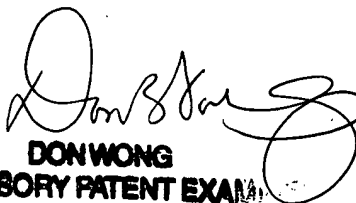
Colby U.S Patent No. 6,594,653 discloses server integrated system and methods for processing recomputed views.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Merilyn P Nguyen whose telephone number is 571-272-4026. The examiner can normally be reached on M-F: 8:30 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on 571-272-1834. The fax phone numbers for the organization where this application or proceeding is assigned are 571-273-8300 for regular communications and 703-746-7240 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

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DON WONG
SUPERVISORY PATENT EXAMINER

June 05, 2006